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# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® XLT 900 MHz RF Receiver MODEL 44G2-2000-DC

### DESCRIPTION

The AIR-EAGLE XLT is an RF system designed for medium to long range wireless remote control of electrical apparatus in a variety of industrial applications. This eight function receiver is equipped with high current SPDT relays and is user-programmable for up to 128 digital addresses and seven selectable frequencies to allow multiple transmitters and receivers to operate simultaneously in the same area without interference. Capable of receiving remote signals transmitted from up to 2500 feet away with a handheld transmitter or up to 1 or more miles with the contact input transmitter, the model 44G2-8000-DC utilizes spread-spectrum technology and provides the utmost security and reliability even in the noisiest RF environments.

### APPROVALS

United States (FCC)	MCQ-XBEEEXSC
Canada (IC)	1846A-XBEEEXSC

### APPLICATIONS

Designed by request for an automobile manufacturing plant, this unit can also control doors, gates, barriers, tail gates, electrically controlled hydraulic valves, propane shut off controls, winches, anchor lifts, lights, sprinkling systems, movie screens, curtains, news weather screens, alarm systems, skeet throwers, saw mill applications, grain or aggregate chutes, conveyor belts, boat lifts, and more.

### INSTALLATION

DISCONNECT DC Power from all equipment before installation.

1. Mount the AIR-EAGLE XLT RECEIVER in a convenient location.
2. Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
3. Connect DC power and control to the proper terminals in your control circuit.



Dimensions (with mounting plate) 6.3" L x 4.8" W x 4.3" H

### TERMINAL STRIP WIRING – BOTTOM PCB

1	N/O Relay #1	7	N/O Relay #3	13	(-) 9-36VDC INPUT
2	C Relay #1	8	C Relay #3	14	(+) 9-36VDC INPUT
3	N/C Relay #1	9	N/C Relay #3		
4	N/O Relay #2	10	N/O Relay #4		
5	C Relay #2	11	C Relay #4		
6	N/C Relay #2	12	N/C Relay #4		

### TERMINAL STRIP WIRING –TOP PCB

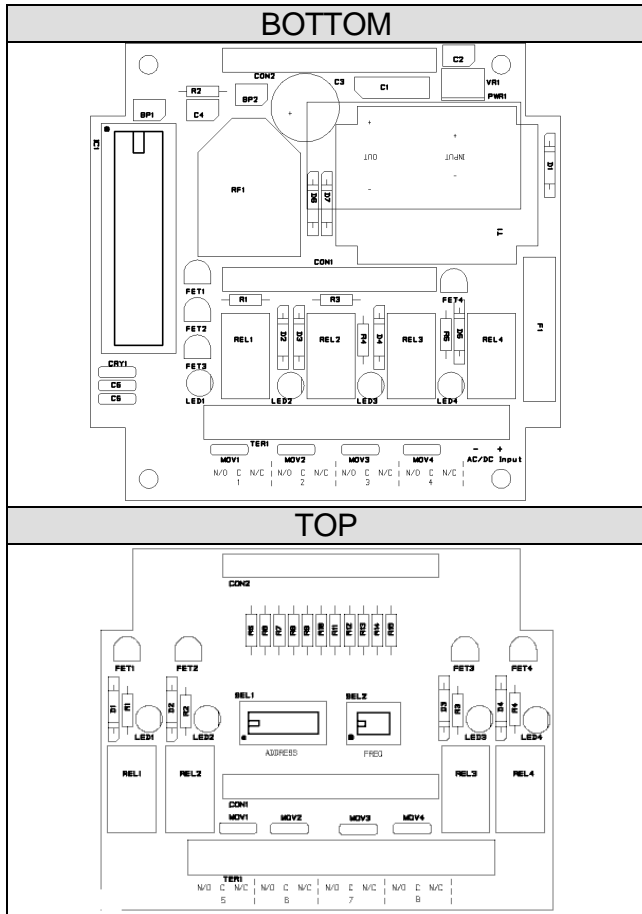
1	N/O Relay #5	7	N/O Relay #7	13	Not Used
2	C Relay #5	8	C Relay #7	14	Not Used
3	N/C Relay #5	9	N/C Relay #7		
4	N/O Relay #6	10	N/O Relay #8		
5	C Relay #6	11	C Relay #8		
6	N/C Relay #6	12	N/C Relay #8		

# AIR-EAGLE® XLT

900 MHz RF Receiver

**MODEL 44G2-2000-DC**

## CONTROLS AND INDICATORS



LED1 – LED8	Will be illuminated when the corresponding relay is energized
REL1 thru REL8	Eight SPDT output control relays

## SPECIFICATIONS

DC Input	9 – 36 VDC @ 10 Watts
Relay Contacts	SPDT 5 amp @ up to 36 VDC per relay
Fuse Protected	1 amp
Receiver Range – Dependant upon transmitter – see below:	
w/Handheld TX	Approximately 2500 feet
w/Contact Input TX	1 Mile (or more – see antennas)
Receiver Frequency	900 MHz Spread Spectrum
Receiver Channels	Seven independent network frequencies
Antenna Connection	TNC Bulkhead
Enclosure	Polycarbonate / NEMA 4, 4x, 12 + 13
Operating Temperature	-40° F to +185° F

## DIGITAL ADDRESS & FREQUENCY SET-UP

**Address:** The unit is shipped from the factory with SEL1 switches in the open positions (Digital Address = "0") If using this receiver with a *handheld* transmitter, this setting must **NOT BE CHANGED**. If using this receiver with a contact input transmitter, this setting can be changed by the user in any combination **but must match the transmitter that is set up to communicate with this receiver**.

**Frequency:** The frequency is factory set at #1. See the table below to change frequencies.

- 1) Remove power from unit
- 2) Remove top cover.
- 3) Select desired address and/or network frequency using table below.
- 4) Reattach cover and apply power.
- 5) Programming is now complete.

SEL1 (ADDRESS)	Seven dip switches for selecting digital address of this transmitter (Maximum of 128 combinations)			
SEL 2 (SW 1-3): <i>(NETWORK FREQUENCY)</i>	Network Address	SW1	SW2	SW3
	1	OPEN	OPEN	OPEN
	2	CLOSED	OPEN	OPEN
	3	OPEN	CLOSED	OPEN
	4	CLOSED	CLOSED	OPEN
	5	OPEN	OPEN	CLOSED
	6	CLOSED	OPEN	CLOSED
7	OPEN	CLOSED	CLOSED	
SEL2 (SW4)	Reserved for future use			

## REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	44G2-2002-DC
Standard Antenna (Included):	
900MHz Portable Antenna (For distances up to 2500 feet*)	49-1103
Optional Antennas and Accessories – Used to increase range in both non line of sight and line of sight applications. - Contact BWI Eagle for recommendations	
900MHz Omni Directional Antenna (For distances up to 2 miles*)	49-3101
900MHz 13dB Yagi Antenna Long Range Operation (For distances up to 4 miles*)	49-3102
Flex Coax Cable w/Connectors	49-4000-XX (XX = # of Feet)
Inline Lightning Arrestor	49-5002
2 Ft. Bulkhead Assembly (Used when mounting receiver inside another enclosure)	49-5004
* = Line of Sight	

## LIMITED WARRANTY STATEMENT

BWI Eagle Inc. warrants the Air-Eagle Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage due to external causes, including accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. This limited warranty, and any implied warranties that may exist under state law, apply only to the original purchaser of the equipment, and last only for as long as such purchaser continues to own the equipment. This warranty replaces all other warranties, express or implied including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. BWI Eagle makes no express warranties beyond those stated here. BWI disclaims without limitation, implied warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you. To obtain warranty service, contact BWI Eagle for a return material authorization. When returning equipment to BWI Eagle, the customer assumes the risk of damage or loss during shipping and is responsible for the shipping costs incurred.